

1
non-responsive

Robert Ivanauskas

From: Philip Moeller
Sent: Thursday, April 17, 2014 3:53 PM
To: Jennifer Murray; Robert Ivanauskas
Cc: Terence Burke; Jason Stanek
Subject: RE: Chair Wellinghoff resigned so that he could publicize Metcalf?

From: Jennifer Murray [mailto:jennifer.murray@ferc.gov]
Sent: Thursday, April 17, 2014 3:52 PM
To: Robert Ivanauskas
Cc: Philip Moeller; Terence Burke; Jason Stanek
Subject: Re: Chair Wellinghoff resigned so that he could publicize Metcalf?

Yes and Kim Jung Un recently won reelection by 100% of the vote.

On Apr 17, 2014, at 3:37 PM, Robert Ivanauskas <robert.ivanauskas@ferc.gov> wrote:

Here's an amazing quote from an Op-Ed in the Hill newspaper:

"Jon Wellinghoff, chairman of the U.S. Federal Energy Regulatory Commission (FERC), took the unusual and laudable step of resigning his chairmanship, apparently so he could warn the press and the people about the little known Metcalf incident and its larger implications for national vulnerability."

The Hill

WAITNG FOR CYBERGEDDON

By Peter Vincent Pry - 04/16/14 01:17 PM EDT

Username: ADFERC\Tljgc14

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Job : 13
Date: 7/28/2017
Time: 11:44:15 AM

From: Michael Peters
Sent: Friday, September 12, 2014 12:15 PM
To: [REDACTED] Joseph McClelland; David Andrejcek; Harry Tom; [REDACTED]
Subject: RE: FBI: California substation attack wasn't terrorism

Of course the second article clearly states why they can't call it terrorism. No one claimed responsibility for the attack.

Thanks,

Mike

From: [REDACTED]
Sent: Friday, September 12, 2014 11:14 AM
To: Joseph McClelland; David Andrejcek; Harry Tom; [REDACTED] Michael Peters; [REDACTED]
Subject: FBI: California substation attack wasn't terrorism

FYI – This news article was just mentioned on the RISC call

- <http://thehill.com/policy/energy-environment/217386-fbi-calif-substation-attack-wasnt-terrorism>
- <http://www.nbcbayarea.com/news/local/Ex-FBI-Agent-Says-Attack-at-Metcalf-Substation-Not-an-Act-of-Terrorism-274854431.html>

Bob Shaffeld stated "This was a year late."

[REDACTED]
Federal Energy Regulatory Commission
Office of Energy Infrastructure Security (OEIS)
888 First Street NE, [REDACTED]
Washington, DC 20426
Phone: [REDACTED]

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From: Michael Peters
Sent: Friday, September 12, 2014 12:15 PM
To: [REDACTED] Joseph McClelland; David Andrejcek; Harry Tom [REDACTED]
Subject: RE: FBI: California substation attack wasn't terrorism

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Sent: Friday, September 12, 2014 11:14 AM
To: Joseph McClelland; David Andrejcek; Harry Tom; [REDACTED] Michael Peters; [REDACTED]
Subject: FBI: California substation attack wasn't terrorism

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- <http://www.nbcbayarea.com/news/local/Ex-FBI-Agent-Says-Attack-at-Metcalf-Substation-Not-an-Act-of-Terrorism-274854431.html>

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3

Harry Tom

From: [REDACTED]
Sent: Monday, January 06, 2014 2:38 PM
To: [REDACTED]
Subject: Re: Google Alert - metcalf substation

The Santa Clara County Sheriff's Office released surveillance footage of the Metcalf shooting.
Video: <http://link.brightcove.com/services/player/bcpid2235459141001?bckey=AQ~.AAAAAF4Pseg~.AuucDCy8Ix18FsWpZ1iJC8zEd4KoUAOL&bctid=2434685555001>

Source: http://www.mercurynews.com/ci_23388359/san-jose-sheriffs-office-release-video-attack-pg

[REDACTED]

On Tue, Dec 31, 2013 at 12:59 PM, [REDACTED] wrote:
Here are links to two recent articles regarding the Metcalf incident back in April.

Happy New Year to all!

[REDACTED]

Federal Energy Regulatory Commission
Office of Energy Infrastructure Security (OEIS)
888 First Street NE, 91-57
Washington, DC 20426

[REDACTED]

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----- Forwarded message -----

From: Google Alerts <googlealerts-noreply@google.com>
Date: Tue, Dec 31, 2013 at 12:37 PM
Subject: Google Alert - metcalf substation
To: [REDACTED]

San Jose Area PG&E Metcalf Substation Attacked: \$250,000 Reward |

Two incidents of "sabotage" happened in the San Jose, California area on April 16, 2013. The PG&E Metcalf substation was entered through ...

www.maggiesnotebook.com/.../san-jose-area-pge-metcalf-subs...

PG&E Metcalf substation Archives | - The D.C. Clothesline

Another enormous story that the enemedia deigned to ignore. If it smells like jihad, the media goes into scrub-a-dub-dub mode. And they ignored it ...

dcclothesline.com/tag/pge-metcalf-substation/

[Unsubscribe](#) from this alert.

[Create](#) another alert.

[Manage](#) your alerts.

Office of Energy Infrastructure Security

Federal Energy Regulatory Commission

888 First Street, NE, [REDACTED]

Washington, DC 20426

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RE: Google Alert - metcalf substation

1 message

Thu, Jan 2, 2014 at 6:29 AM

To: [REDACTED]
Cc: Harry Tom <harry.tom@ferc.gov>

Here's another recent excerpt on Metcalf from open source that a former colleague at DHS sent me:

Concerns For Physical Security Of Power Grid Following PG&E Substation Incident. Foreign Policy (12/24, Rothkopf, 707K) reports on an April 16 incident at Pacific Gas & Electric's Metcalf power substation, in which one or two individuals entered manholes at the site, cut fiber cables in the area, and fired over 100 rounds "from what two officials described as a high-powered rifle at several transformers in the facility," with ten transformers in one area and three transformer banks hit in another. According to Foreign Policy, the incident "has U.S. officials puzzled and worried about the physical security of the electrical grid from attackers." Mark Johnson, a former vice president for transmission operations at PG&E, stated at a conference last month that "These were not amateurs taking potshots. ... My personal view is that this was a dress rehearsal" for future attacks. Foreign Policy mentions that the FBI has taken over the case, with spokesman Peter Lee saying that the incident "appears to be an isolated incident" and the FBI finding no evidence "that the attack is related to terrorism."

The Daily Mail (UK) (12/30, Gorman, 2.92M) notes that cooling oil leaked from one transformer bank, causing "transformers to overheat and shut down." Officials warned locals "to conserve energy, but no major power outages occurred." The Daily Mail also mentions that "no major damage or injuries were sustained either, but a stalled local investigation led the feds to take over the case."

From: [REDACTED]
Sent: Tuesday, December 31, 2013 12:59 PM
To: [REDACTED]
Subject: Fwd: Google Alert - metcalf substation

Here are links to two recent articles regarding the Metcalf incident back in April.

Happy New Year to all!

[REDACTED]
Federal Energy Regulatory Commission
Office of Energy Infrastructure Security (OEIS)
888 First Street NE, [REDACTED]
Washington, DC 20426
[REDACTED]

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----- Forwarded message -----
From: Google Alerts <googlealerts-noreply@google.com>
Date: Tue, Dec 31, 2013 at 12:37 PM
Subject: Google Alert - metcalf substation
To: [REDACTED]

Web

2 new results for metcalf substation

San Jose Area PG&E Metcalf Substation Attacked: \$250,000 Reward |

Two incidents of "sabotage" happened in the San Jose, California area on April 16, 2013. The PG&E Metcalf substation was entered through ...

www.maggiesnotebook.com/.../san-jose-area-pge-metcalf-subs...

PG&E Metcalf substation Archives | - The D.C. Clothesline

Another enormous story that the enemedia deigned to ignore. If it smells like jihad, the media goes into scrub-a-dub-dub mode. And they ignored it ...

dcclothesline.com/tag/pge-metcalf-substation/

Unsubscribe from this alert.
Create another alert.
Manage your alerts.

Redacted Pursuant to FOIA Exemption B6

5

Philip Moeller

From: Robert Ivanauskas
Sent: Wednesday, April 17, 2013 3:04 PM
To: Philip Moeller; Terence Burke; Jason Stanek
Cc: Jennifer Murray
Subject: RE: Metcalf Substation

According to another local paper (the "Capitola-Soquel Patch"), the sheriff said that the fiberoptic and substation attack are linked. See below:

Phone Outage Deemed 'Sabotage' — Repair ETA Now Wednesday Morning

The two incidents occurred near the same time and have caused widespread outages in Gilroy and Santa Cruz County.

• April 16, 2013

In apparent acts of "sabotage" in the South Bay early today, someone cut fiber optic cables, knocking out some 911 service, and then fired a rifle at a PG&E substation, Santa Clara County's sheriff said.

The vandal's objective appears to have been "shutting down the system," Sheriff Laurie Smith said at a news conference at the substation this afternoon.

"We don't have a suspect," she said. "It seems like the same perpetrator or perpetrators to me."

Both incidents happened early this morning in the area of Metcalf Road and Monterey Highway, just southeast of San Jose city limits.

The underground cables, protected by manhole covers, were cut shortly before 1:30 a.m. in two locations along Monterey Highway, Smith said.

The "sabotage" has cut most phone service (landline and cell phones) and Internet in Gilroy as well as Santa Cruz County.

Some of the cables, comprised of bundled fiber optic cords, were cut near Monterey Highway and Coyote Ranch Road, AT&T spokesman George Ross said.

He said the cables there are AT&T lines but that some other service providers piggyback off of them.

A short time after the cables were cut, at about 1:45 a.m., the sheriff's office and San Jose police received reports of gunfire in the area of Monterey Highway and Blanchard Road, sheriff's spokesman Deputy Kurtis Stenderup said.

Officers and deputies responded but didn't find anything out of the ordinary.

Two hours later, PG&E contacted the sheriff's office to report a problem at the utility's nearby substation in the 100 block of Metcalf Road.

PG&E officials told the sheriff's office that the substation's security fence had been breached, at least five transformers had been damaged and that hazardous materials had spilled, Stenderup said.

PG&E spokesman JD Guidi said oil had leaked from a transformer bank, but that the leak had been contained.

"We are currently on site assessing the magnitude of the vandalism and the impact," he said.

He said there was bullet damage to the substation, but that no outages resulted.

Jason King, another PG&E spokesman, said the leaked material was "the cooling oil that cools our electrical equipment there."

Authorities in charge of the state's power grid urged South Bay residents and businesses today to conserve electricity in light of the vandalism.

The California Independent System Operator issued a Flex Alert asking those in Santa Clara County and Silicon Valley to cut down on their electricity use until midnight, including by lowering lighting, turning off thermostats and powering down unnecessary appliances.

California ISO officials said equipment at the substation may need to be taken out of service as crews continue to assess the damage, which will limit transmission capacity.

AT&T repair crews initially had trouble accessing the vandalized cables this morning because of the emergency response that was still under way at the nearby substation, Ross said.

He said all 911 systems are back up, since those were AT&T's top priority when it began working to restore service.

Ross said normal service should be back by Wednesday morning.

In the meantime, authorities are advising residents who are experiencing emergencies to try calling 911 on their cellphones if their landlines are down. If that doesn't work, residents should drive to the nearest fire station, Morgan Hill police said.

Ross said that if cell phone users travel outside the area affected by the outage, their phones should work again.

Investigators are working to determine who is responsible for cutting the cables and shooting at the substation, which is located near both a public gun range and the sheriff's shooting range.

All of the incidents occurred within a half-mile radius of each other, Smith said.

She said that although the timing and geography suggest the attacks are related, it is still possible that they were perpetrated by different people.

"It's going to be a difficult investigation," she said.

Smith said, however, that it is clear both acts were intentional.

"So if you want to call that sabotage, that's what it looks like," she said.

From: Philip Moeller [mailto:philip.moeller@ferc.gov]
Sent: Wednesday, April 17, 2013 2:40 PM
To: Robert Ivanauskas; Terence Burke; Jason Stanek
Cc: Jennifer Murray
Subject: RE: Metcalf Substation

"near a gun range" no bias there! I'm sure there was robust target practice going on at 1:30 a.m.

From: Robert Ivanauskas [mailto:robert.ivanaukas@ferc.gov]
Sent: Wednesday, April 17, 2013 2:38 PM
To: Philip Moeller; Terence Burke; Jason Stanek
Subject: Metcalf Substation

Here's some of the public reporting on the Metcalf substation, and other news about fiberoptic cables being damaged.

Internet, cellphone service disrupted throughout Santa Cruz County

By Jondi Gumz - Santa Cruz Sentinel

Posted: 04/16/2013 05:38:53 PM PDT

SANTA CRUZ - Internet and cellphone service in the county were disrupted Tuesday after one of AT&T's fiberoptic cables in Gilroy was damaged.

The outage lasted all day and is expected to be fixed Wednesday.

It affected commercial customers such as Bay Federal Credit Union, which was unable to process deposits due to lack of Internet connectivity, individual AT&T and Verizon phone users, along with Sonic Fusion and Flexlink customers in Santa Cruz.

George Ross, a spokesman for AT&T, could not say how many customers were affected, but he said technicians are working to repair the damage as quickly as possible.

"This kind of situation is exactly why Cruzio started building our own network, wholly owned and managed locally, after the 2009 cut," said Cruzio Internet co-founder Chris Neklason, referring to a similar outage on the same line. "Cruzio Velocity customers are affected. Cruzio DSL, wireless and datacenter customers, and anyone working at 877 Cedar, are not."

Cruzio reported that AT&T "confirmed a major fiber cut in the area and have dispatched technicians out for repair."

The fiberoptic cables were cut near Monterey Highway in Santa Clara County about 1:30 a.m. Tuesday, according to Santa Clara County Sheriff Laurie Smith.

By 11:15 a.m., Cruzio reported AT&T determined new cable was needed due to the extent of the damage and service expected to be restored by 4 p.m. An update shortly after 4 p.m. said AT&T had begun splicing.

Splicing will "take a while," Neklason said. "Each hair-width glass fiber must be polished and attached to the corresponding fiber in the new bundle."

That was not the only utility disruption Tuesday.

The Santa Clara County Sheriff's Office and the San Jose Police Department received multiple phone calls of gunshots in the area of Monterey Road and Blanchard Road in the city of San Jose at 1:46 a.m. Both departments were unable to locate anything or anyone suspicious in the immediate area, but two hours later PG&E contacted the Sheriff's Office regarding the breach of a security fence at their substation located in the 100 block of Metcalf Road.

According to the Sheriff's Office, PG&E reported at least five transformers were damaged and hazardous materials spilled. Cause of the damage was not known.

The South Santa Clara County Fire District and PG&E worked to clean up hazardous materials spilled by transformers.

The two incidents occurred a half-mile from each other and near a gun range.

Follow Sentinel reporter Jondi Gumz on Twitter at [Twitter.com/jondigum](https://twitter.com/jondigum)

non-responsive

6

Robert Ivanauskas

From: Philip Moeller
Sent: Thursday, April 10, 2014 10:23 PM
To: Joseph.McClelland@ferc.gov; Robert.Ivanauskas@ferc.gov
Subject: Re: Fwd: FBI Seeking Public's Help Regarding Destruction of an Energy Facility, Disruption of Communication Lines Case

From: Joseph McClelland [<mailto:joseph.mcclelland@ferc.gov>]
Sent: Thursday, April 10, 2014 08:30 PM
To: Philip Moeller <Philip.Moeller@ferc.gov>; Robert Ivanauskas <Robert.Ivanauskas@ferc.gov>
Subject: Fwd: FBI Seeking Public's Help Regarding Destruction of an Energy Facility, Disruption of Communication Lines Case

FYI

Sent from my iPad

Begin forwarded message:

From: Chris Murray <chris.murray@ferc.gov>
Date: April 10, 2014, 1:23:48 PM EDT
To: Joseph.McClelland@ferc.gov, Leonard.Tao@ferc.gov
Subject: Fw: FBI Seeking Public's Help Regarding Destruction of an Energy Facility, Disruption of Communication Lines Case

From: Wright, Kathleen R.(DO)(FBI) [<mailto:Kathleen.Wright@ic.fbi.gov>]
Sent: Thursday, April 10, 2014 12:41 PM
To: Tong, Clarence <Clarence.Tong@hq.doe.gov>; Mehta, Coleman <Coleman.Mehta@hq.dhs.gov>; john.peschke@ferc.gov <john.peschke@ferc.gov>; chris.murray@ferc.gov <chris.murray@ferc.gov>
Subject: FW: FBI Seeking Public's Help Regarding Destruction of an Energy Facility, Disruption of Communication Lines Case

FYI:



U.S. Department of Justice

Federal Bureau of Investigation
San Francisco Division
450 Golden Gate Avenue, Floor 13
San Francisco, California 94102

For Immediate Release

April 10, 2014

non-responsive

FBI Seeking Public's Help Regarding Destruction of an Energy Facility, Disruption of Communication Lines Case

Incident at the PG&E Metcalf Power Substation Occurred Almost One Year Ago

SAN FRANCISCO – The FBI San Francisco Field Office is seeking the public's help regarding the Pacific Gas and Electric Company (PG&E) Metcalf power substation shooting and AT&T fiber optic cable incident which occurred on April 16, 2013.

On the 16th at approximately 1:40 a.m., the Santa Clara County Sheriff's Office and San Jose Police Department received multiple phone calls of gunshots in the area of Monterey Road and Blanchard Road in San Jose, Calif.

That morning, an unknown individual(s) cut two groups of fiber optic cables and used a 7.62 caliber rifle to shoot ten transformer bays. The individual(s) should be considered armed and dangerous.

Anyone with information is urged to contact their nearest FBI office or dial 911. The FBI can be reached 24 hours a day at 415-553-7400 in the San Francisco area. All calls are confidential. Tips can also be submitted at: tips.fbi.gov.

###

Members of the media should contact FBI Media Representative Peter Lee at 415-553-7450.

7

From: [REDACTED]
Sent: Tuesday, April 16, 2013 4:39 PM
To: [REDACTED]
Subject: Fwd: Flex-Alert issued for Northern California only
Attachments: D66310B5AF9D09E7.pdf

See attached.

[REDACTED]
Federal Energy Regulatory Commission
Office of Energy Infrastructure Security (OEIS)
[REDACTED]
Washington, DC 20426

[REDACTED]
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----- Forwarded message -----

From: [REDACTED]
Date: Tue, Apr 16, 2013 at 2:14 PM
Subject: RE: Flex-Alert issued for Northern California only
To: Harry Tom <harry.tom@ferc.gov>, [REDACTED]

Cc: [REDACTED]

Here is the OE-417

[REDACTED]
Federal Energy Regulatory Commission
Office of Energy Infrastructure Security
[REDACTED]

[REDACTED] Redacted Pursuant to FOIA Exemption B6 and 7A

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From: Harry Tom [mailto:harry.tom@ferc.gov]
Sent: Tuesday, April 16, 2013 2:13 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: Fwd: Flex-Alert issued for Northern California only

[REDACTED]

----- Forwarded message -----

From: Michael Bardee <michael.bardee@ferc.gov>
Date: Tue, Apr 16, 2013 at 1:44 PM
Subject: Fwd: Flex-Alert issued for Northern California only
To: Joseph McClelland <joseph.mcclelland@ferc.gov>, Harry Tom <harry.tom@ferc.gov>

----- Forwarded message -----

From: Ulmer, Andrew <aulmer@caiso.com>
Date: Tue, Apr 16, 2013 at 1:40 PM
Subject: RE: Flex-Alert issued for Northern California only
To: "Michael.Bardee@ferc.gov" <Michael.Bardee@ferc.gov>

Mike:

I wanted to alert you to this matter at the Metcalf substation. The California ISO has requested conservation through the issuance of a Flex-Alert.

Andrew

Andrew Ulmer

Director, Federal Regulatory Affairs

California ISO

Work (202) 239-3947

The foregoing electronic message, together with any attachments thereto, is confidential and may be legally privileged against disclosure other than to the intended recipient. It is intended solely for the addressee(s) and access to the message by anyone else is unauthorized. If you are not the intended recipient of this electronic message, you are hereby notified that any dissemination, distribution, or any action taken or omitted to be taken in reliance on it is strictly prohibited and may be unlawful. If you have received this electronic message in error, please delete and immediately notify the sender of this error.

U.S. Department of Energy
Electricity Delivery and Energy Reliability
Form OE-417

**ELECTRIC EMERGENCY INCIDENT
AND DISTURBANCE REPORT**

OMB No. 1901-0283
Approval Expires 01/31/15
Burden Est. Responses 2006/01/01

NOTICE: This report is **mandatory** under Public Law 93-275. Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For the sanctions and the provisions concerning the confidentiality of information submitted on this form, see General Information portion of the instructions. Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

RESPONSE DUE: Within 1 hour of the incident, submit Schedule 1 and lines 13-17 in Schedule 2 as an Emergency Alert report if criteria 1-8 are met. Within 6 hours of the incident, submit Schedule 1 and lines 13-17 in Schedule 2 as a Normal Report if only criteria 9-12 are met. Submit updates as needed and a final report (all of Schedules 1 and 2) within 72 hours of the incident.

METHODS OF FILING RESPONSE

(Retain a completed copy of this form for your files.)

Online: Submit your form via online submission using the link at <http://www.oe.netl.doe.gov/oe417.aspx>.
E-mail: Submit your form via e-mail as an attachment to doehgeoc@hq.doe.gov.
FAX: FAX your Form OE-417 to the following facsimile number: (202) 586-8485. (Use if e-mail is not available.)
Telephone: If you are unable to e-mail or fax the form, please call and report the information to the following telephone number: (202) 586-8100.

SCHEDULE 1 -- ALERT NOTICE (page 1 of 3)

Criteria for Filing (Check all that apply)

See Instructions For More Information

If any box 1-8 on the right is checked, this form must be filed within 1 hour of the incident; check Emergency Alert (for the Alert Status) on Line 1 below.

1. ☒ Physical attack that causes major interruptions or impacts to critical infrastructure facilities or to operations
2. ☐ Cyber event that causes interruptions of electrical system operations
3. ☐ Complete operational failure or shut-down of the transmission and/or distribution electrical system
4. ☐ Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system
5. ☐ Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident
6. ☐ Load shedding of 100 Megawatts or more implemented under emergency operational policy
7. ☐ System-wide voltage reductions of 3 percent or more
8. ☐ Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system

If any box 9-12 on the right is checked AND none of the boxes 1-8 are checked, this form must be filed within 6 hours of the incident; check Normal Alert (for the Alert Status) on Line 1 below.

9. ☒ Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems
10. ☐ Cyber event that could potentially impact electric power system adequacy or reliability
11. ☐ Loss of electric service to more than 50,000 customers for 1 hour or more
12. ☐ Fuel supply emergencies that could impact electric power system adequacy or reliability

If significant changes have occurred after filing the initial report, re-file the form with the changes and check Update (for the Alert Status) on Line 1 below.

The form must be re-filed within 72 hours of the incident with the latest information and with Final (for the Alert Status) checked on Line 1 below.

LINE NO.	ORGANIZATION NAME	Emergency Alert [] 1 Hour	Normal Alert [<input checked="" type="checkbox"/>] 6 Hours	Update [] As required	Final [] 72 Hours
1.	Alert Status (check one)				
2.	Organization Name	Pacific Gas & Electric Co			
3.	Address of Principal Business Office	77 Beale Street null San Francisco California 94105			

U.S. Department of Energy
Electricity Delivery and Energy Reliability
Form OE-417

Redacted Pursuant to FOIA Exemption B6 and 7A Form Approved

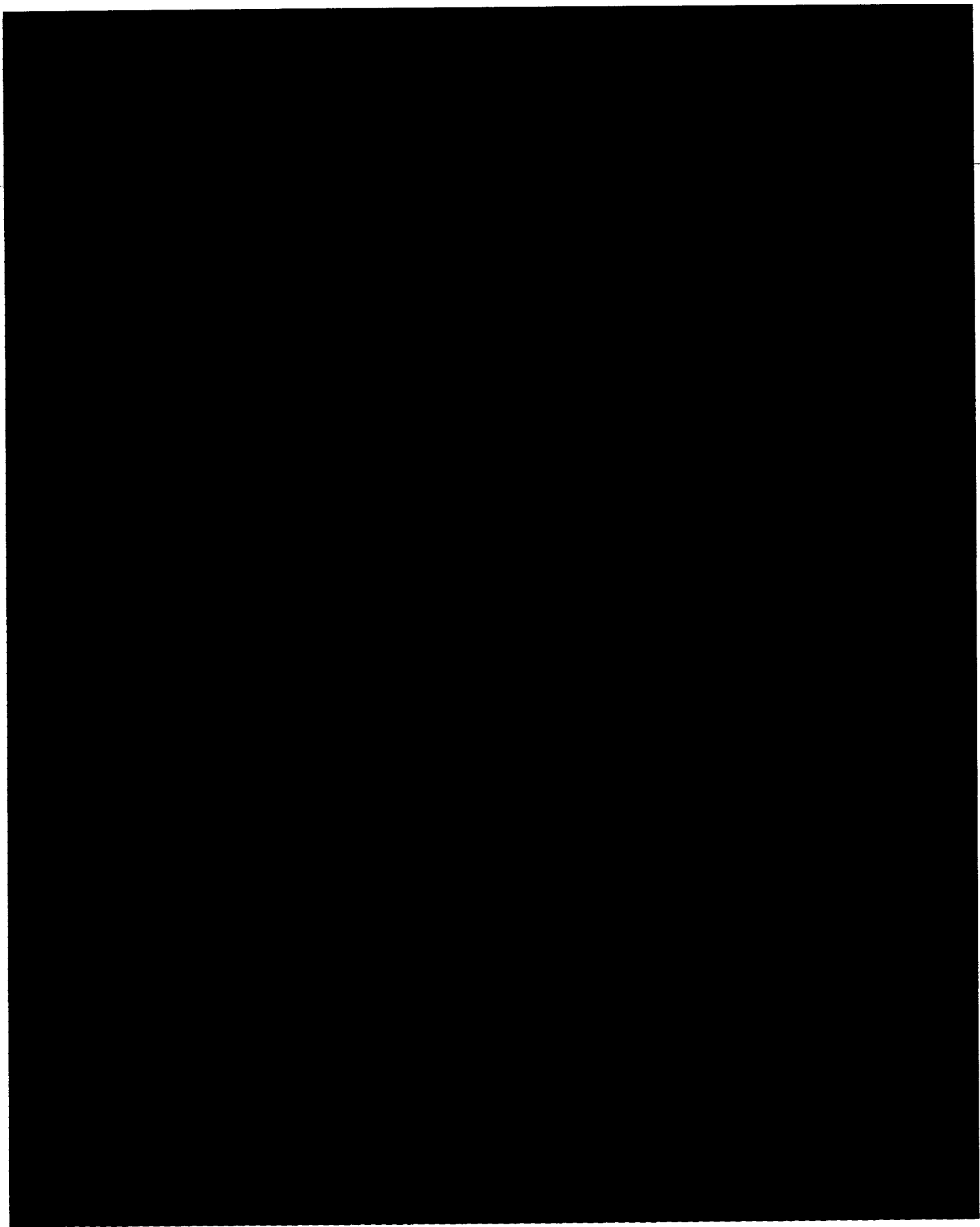
**ELECTRIC EMERGENCY INCIDENT
AND DISTURBANCE REPORT**

OMB No. 1901-0288
Approval Expires 01/31/15
Burden Per Response: 2.03
hours

SCHEDULE 1 -- ALERT NOTICE (page 2 of 3)

INCIDENT AND DISTURBANCE DATA			
4.	Geographic Area(s) Affected	California;	Unknown []
5.	Date/Time Incident Began (mm-dd-yy/hh:mm) using 24-hour clock	04 - 16 - 2013 / 01 : 47 mo dd yy hh mm [X] Pacific [] Central [] Mountain []	[] Alaska [] Hawaii []
6.	Date/Time Incident Ended (mm-dd-yy/ hh:mm) using 24-hour clock	- - - / - : - mo dd yy hh mm [] Eastern [] Central [] Mountain []	[] Pacific [] Alaska [] Hawaii []
7.	Did the incident/disturbance originate in your system/area? (check one)	Yes [X] No []	Unknown []
8.	Estimate of Amount of Demand Involved (Peak Megawatts)		Unknown [X]
9.	Estimate of Number of Customers Affected		Unknown [X]

10. Type of Emergency Check all that apply	11. Cause of Incident Check if known or suspected	12. Actions Taken Check all that apply
Physical Attack [X]	Complete Electrical System Failure []	Shed Firm Load []
Cyber Event []	Electrical System Separation - Islanding []	Reduced Voltage []
Major Transmission System Interruption []	Inadequate Electric Resources to Serve Load []	Made Public Appeals [X]
Major Generation Inadequacy []	Actual or Potential Attack/Event Physical Attack [X] Cyber Event [] Vandalism [X]	Implemented a Warning, Alert, or Contingency Plan []
Major Distribution System Interruption [X]	Transmission Equipment []	Shed Interruptible Load []
Other []	Loss of Part or All of a High Voltage Substation or Switchyard (230 kV + for AC, 200 kV+ for DC). [X]	Repaired/Restored []
Additional Information/Comments: Early this morning we had an intruder who shot out 2 or 3 transformers at Metcalf 500 KV yard in San Jose California. The damage is unknown and they are currently looking for secondary devices. There are reported outages	Weather or Natural Disaster []	Mitigation(s) Implemented [X]
	Operator Action(s) []	Other []
	Fuel Supply Deficiency (e.g., gas, oil, water) []	Additional Information/Comments:
	Unknown Cause []	
	Other []	
Additional Information/Comments:		





Joseph McClelland

From: McDonald, Jeffrey S
Sent: Tuesday, April 16, 2013 3:21 PM
To: DOE Non-Cyber Disturbance Reporting
Cc: McDonald, Jeffrey S; Agbassekou, Kokou; Perez, Glen
Subject: Metcalf_04_16_2013_OE-417.doc
Attachments: Metcalf_04_16_2013_OE-417.doc

CISO is submitting an OE-417 due to a Public Appeals to reduce the use of electricity in the San Jose area, in particular Santa Clara and Silicon Valley, to conserve electricity following damage to the Metcalf transmission substation.

Jeff McDonald

The foregoing electronic message, together with any attachments thereto, is confidential and may be legally privileged against disclosure other than to the intended recipient. It is intended solely for the addressee(s) and access to the message by anyone else is unauthorized. If you are not the intended recipient of this electronic message, you are hereby notified that any dissemination, distribution, or any action taken or omitted to be taken in reliance on it is strictly prohibited and may be unlawful. If you have received this electronic message in error, please delete and immediately notify the sender of this error.

NOTICE: This report is mandatory under Public Law 93-275. Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For the sanctions and the provisions concerning the confidentiality of information submitted on this form, see General Information portion of the instructions. Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

RESPONSE DUE: Submit a Schedule 1 as an Emergency Alert report within 1 hour if for incidents 1-8 below. All other initial reports are due within 6 hours of the incident. Submit updates as needed and a final report (Schedules 1 and 2) within 48 hours.

METHODS OF FILING RESPONSE
(Retain a completed copy of this form for your files.)

Online: Submit your form via online submission using the link at <http://www.oe.netl.doe.gov/oe417.aspx>.
E-mail: Submit your form via e-mail as an attachment to oe417@hq.doe.gov.
FAX: FAX your Form OE-417 to the following facsimile number: (202) 586-8485. (Use if e-mail is not available.)
Telephone: If you are unable to e-mail or fax the form, please call and report the information to the following telephone number: (202) 586-8100.

SCHEDULE 1 -- ALERT NOTICE (page 1 of 3)

Criteria for Filing (Check all that apply)

See Instructions For More Information

If any box 1-8 on the right is checked, this form must be filed within 1 hour of the incident; check Emergency Alert (for the Alert Status) on Line 1 below.	1. <input type="checkbox"/> Actual physical attack that causes major interruptions or impacts to critical infrastructure facilities or to operations
	2. <input type="checkbox"/> Actual cyber or communications attack that causes major interruptions of electrical system operations
	3. <input type="checkbox"/> Complete operational failure or shut-down of the transmission and/or distribution electrical system
	4. <input type="checkbox"/> Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system
	5. <input type="checkbox"/> Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident
	6. <input type="checkbox"/> Load shedding of 100 Megawatts or more implemented under emergency operational policy
	7. <input type="checkbox"/> System-wide voltage reductions of 3 percent or more
	8. <input checked="" type="checkbox"/> Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system

If any box 9-12 on the right is checked AND none of the boxes 1-8 are checked, this form must be filed within 6 hours of the incident; check Normal Alert (for the Alert Status) on Line 1 below.	9. <input type="checkbox"/> Suspected physical attacks that could impact electric power system adequacy or reliability; or vandalism which target components of any security systems
	10. <input type="checkbox"/> Suspected cyber or communications attacks that could impact electric power system adequacy or vulnerability
	11. <input type="checkbox"/> Loss of electric service to more than 50,000 customers for 1 hour or more
	12. <input type="checkbox"/> Fuel supply emergencies that could impact electric power system adequacy or reliability

If significant changes have occurred after filing the initial report, re-file the form with the changes and check **Update** (for the Alert Status) on Line 1 below.

The form must be re-filed 48 hours after the incident occurred with the latest information and with **Final** (for the Alert Status) checked on Line 1 below.

1.	Alert Status (check one)	Emergency Alert <input checked="" type="checkbox"/> 1 Hour	Normal Alert <input type="checkbox"/> 6 Hours	Update <input type="checkbox"/> As required	Final <input type="checkbox"/> 48 Hours
2.	Organization Name	California ISO			
3.	Address of Principal Business Office	250 Outcropping Way, Folsom, Ca 95630			

U.S. Department of Energy
Electricity Delivery and Energy Reliability
Form OGE-170-C dated 12/2008

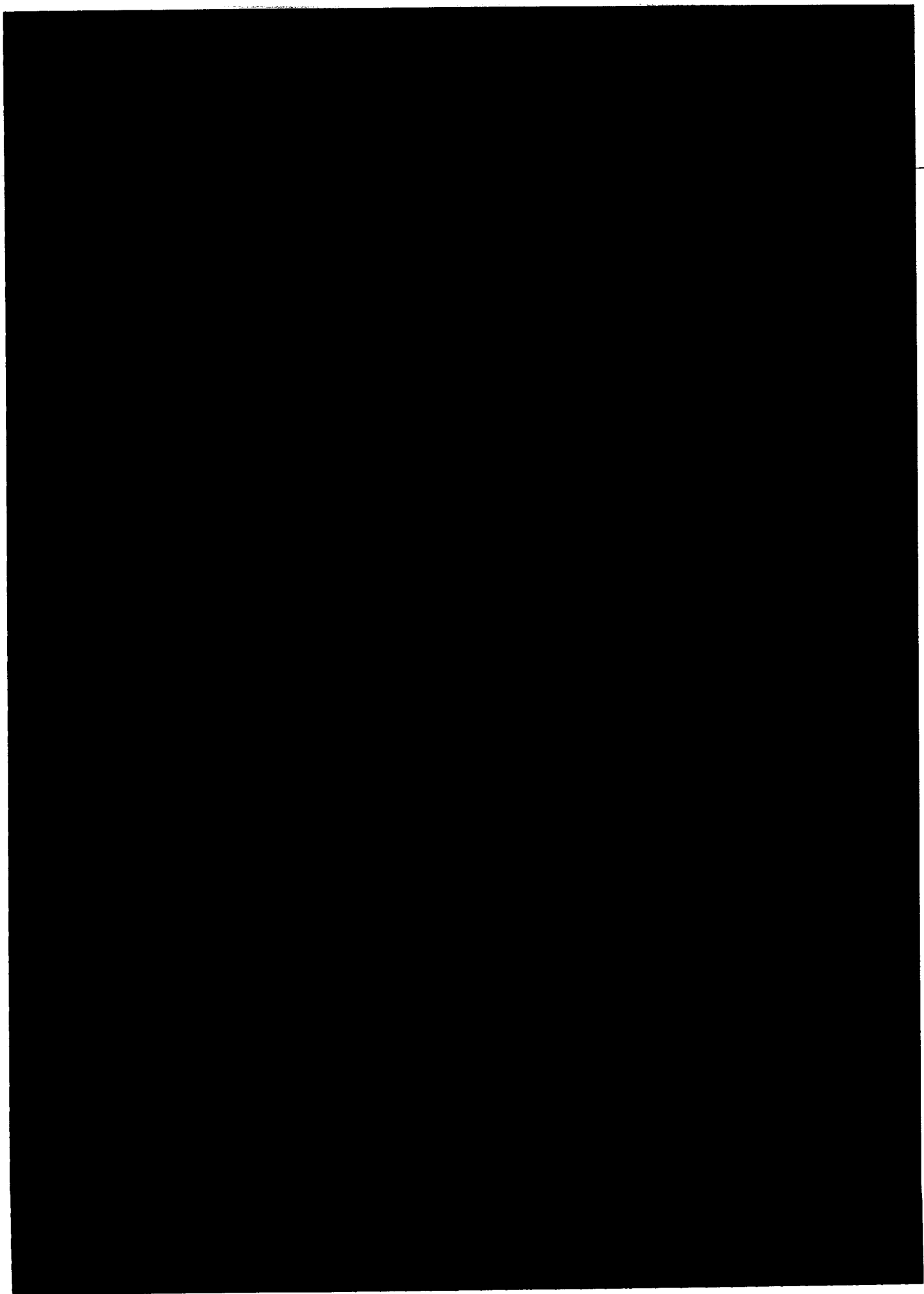
**ELECTRIC EMERGENCY INCIDENT
AND DISTURBANCE REPORT**

Form OGE-170-C
OMB No. 1901-0158
Approved Dates 12/1/08

SCHEDULE 1 -- ALERT NOTICE (page 2 of 3)

4.	Geographic Area(s) Affected	San Jose area, in particular Santa Clara and Silicon Valley	Unknown []
5.	Date/Time Incident Began (mm-dd-yy/hh:mm) using 24-hour clock	04 - 16 - 2013 / 10:00: mo dd yy hh mm	
6.	Date/Time Incident Ended (mm-dd-yy/ hh:mm) using 24-hour clock	04 - 16 - 2013 / 23:59 mo dd yy hh mm	
7.	Did the incident/disturbance originate in your system/area? (check one)	Yes [X] No []	Unknown []
8.	Estimate of Amount of Demand Involved (Peak Megawatts)		Unknown [X]
9.	Estimate of Number of Customers Affected		Unknown [X]
10.	Internal Organizational Tracking Number (if applicable)		

11. Type of Emergency Check all that apply	12. Cause of Incident Check if known or suspected	13. Actions Taken Check all that apply
Major Physical Attack []	Complete Electrical System Failure []	Shed Firm Load []
Major Cyber Attack []	Electrical System Separation - Islanding []	Reduced Voltage []
Major Transmission System Interruption []	Inadequate Electric Resources to Serve Load []	Made Public Appeals [X]
Major Generation Inadequacy []	Actual or Suspected Attack Physical [] Cyber/Computer/Telecom [] Vandalism []	Implemented a Warning, Alert, or Contingency Plan []
Major Distribution System Interruption []	Transmission Equipment [X]	Shed Interruptible Load []
Other [X]	Loss of Part or All of a High Voltage Substation or Switchyard (230 kV + for AC, 200 kV+ for DC) [X]	Repaired/Restored [X]
Damage to the PG&E's Metcalf transmission substation	Weather or Natural Disaster []	Other []
	Operator Action(s) []	
	Fuel Supply Deficiency (e.g., gas, oil, water) []	
	Unknown Cause []	
	Other []	



9



Joseph McClelland

From: Joseph McClelland
Sent: Tuesday, October 01, 2013 5:51 PM
To: Jon Wellinghoff, James Pederson, David Morenoff, Christy Walsh
Subject: Flex-Alert issued for Northern California only
Attachments: D66310B5AF9D09E7.pdf

Jon,
You asked for the original DOE 417 associated with Metcalf – attached is that document.
Thanks,
Joe

U.S. Department of Energy
 Office of Energy Information
 Form OE-417

ELECTRIC EMERGENCY INCIDENT AND DISTURBANCE REPORT

Form OE-417
 DATE: 4/16/2013
 APPROVED: [Signature]
 REPORTED BY: [Signature]

NOTICE: This report is **mandatory** under Public Law 93-275. Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For the sanctions and the provisions concerning the confidentiality of information submitted on this form, see General Information portion of the instructions. Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

RESPONSE DUE: Within 1 hour of the incident, submit Schedule 1 and lines 13-17 in Schedule 2 as an Emergency Alert report if criteria 1-8 are met. Within 6 hours of the incident, submit Schedule 1 and lines 13-17 in Schedule 2 as a Normal Report if only criteria 9-12 are met. Submit updates as needed and a final report (all of Schedules 1 and 2) within 72 hours of the incident.

METHODS OF FILING RESPONSE (Retain a completed copy of this form for your files.)

Online: Submit your form via online submission using the link at <http://www.oe.netl.doe.gov/oe417.aspx>.
E-mail: Submit your form via e-mail as an attachment to doehgeoc@hq.doe.gov.
FAX: FAX your Form OE-417 to the following facsimile number: (202) 586-8485. (Use if e-mail is not available.)
Telephone: If you are unable to e-mail or fax the form, please call and report the information to the following telephone number: (202) 586-8100.

SCHEDULE 1 -- ALERT NOTICE (page 1 of 3)

Criteria for Filing (Check all that apply)

See Instructions For More Information

- | | |
|---|--|
| If any box 1-8 on the right is checked, this form must be filed within 1 hour of the incident; check Emergency Alert (for the Alert Status) on Line 1 below. | 1. <input checked="" type="checkbox"/> Physical attack that causes major interruptions or impacts to critical infrastructure facilities or to operations |
| | 2. <input type="checkbox"/> Cyber event that causes interruptions of electrical system operations |
| | 3. <input type="checkbox"/> Complete operational failure or shut-down of the transmission and/or distribution electrical system |
| | 4. <input type="checkbox"/> Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system |
| | 5. <input type="checkbox"/> Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident |
| | 6. <input type="checkbox"/> Load shedding of 100 Megawatts or more implemented under emergency operational policy |
| | 7. <input type="checkbox"/> System-wide voltage reductions of 3 percent or more |
| | 8. <input type="checkbox"/> Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system |
| If any box 9-12 on the right is checked AND none of the boxes 1-8 are checked, this form must be filed within 6 hours of the incident; check Normal Alert (for the Alert Status) on Line 1 below. | 9. <input checked="" type="checkbox"/> Physical attack that could potentially impact electric power system adequacy or reliability, or vandalism which targets components of any security systems |
| | 10. <input type="checkbox"/> Cyber event that could potentially impact electric power system adequacy or reliability |
| | 11. <input type="checkbox"/> Loss of electric service to more than 50,000 customers for 1 hour or more |
| | 12. <input type="checkbox"/> Fuel supply emergencies that could impact electric power system adequacy or reliability |

If significant changes have occurred after filing the initial report, re-file the form with the changes and check Update (for the Alert Status) on Line 1 below.

The form must be re-filed within 72 hours of the incident with the latest information and with Final (for the Alert Status) checked on Line 1 below

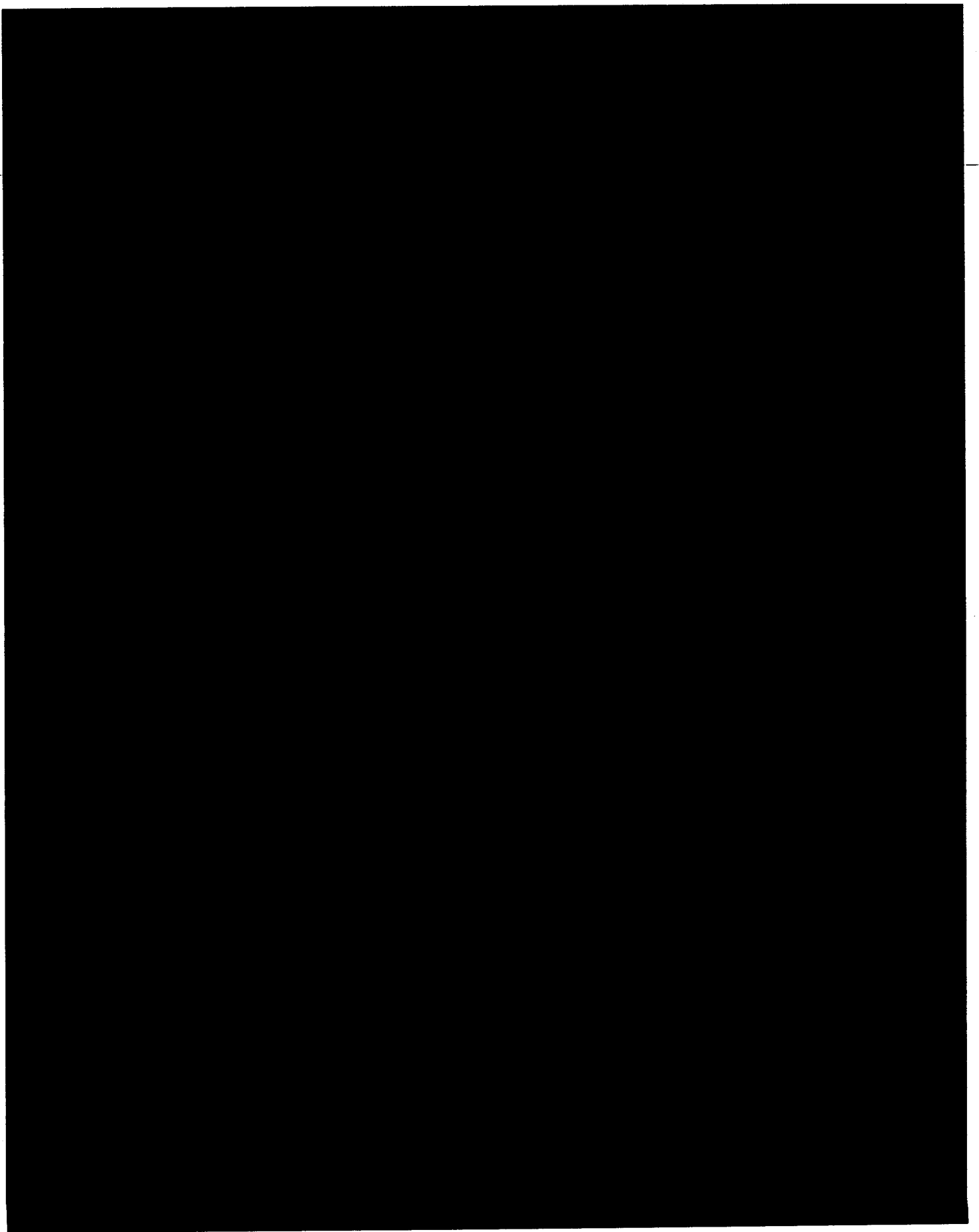
1.	Alert Status (check one)	Emergency Alert <input type="checkbox"/> 1 Hour	Normal Alert <input checked="" type="checkbox"/> 6 Hours	Update <input type="checkbox"/> As required	Final <input type="checkbox"/> 72 Hours
2.	Organization Name	Pacific Gas & Electric Co			
3.	Address of Principal Business Office	77 Beale Street null San Francisco California 94105			

U.S. Department of Energy Electricity Delivery and Energy Reliability Form OE-417	ELECTRIC EMERGENCY INCIDENT AND DISTURBANCE REPORT	Form Approved OMB No. 1901-1239 Approval Expires 01/31/15 Burden Per Response: 2.0 hours
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SCHEDULE 1 -- ALERT NOTICE (page 2 of 3)

4.	Geographic Area(s) Affected	California;	Unknown []
5.	Date/Time Incident Began (mm-dd-yy/hh:mm) using 24-hour clock	04 - 16 - 2013 / 01 : 47 mo dd yy hh mm	<input type="checkbox"/> Eastern <input type="checkbox"/> Central <input type="checkbox"/> Mountain <input checked="" type="checkbox"/> Pacific <input type="checkbox"/> Alaska <input type="checkbox"/> Hawaii
6.	Date/Time Incident Ended (mm-dd-yy/ hh:mm) using 24-hour clock	- - - / - : - mo dd yy hh mm	<input type="checkbox"/> Eastern <input type="checkbox"/> Central <input type="checkbox"/> Mountain <input type="checkbox"/> Pacific <input type="checkbox"/> Alaska <input type="checkbox"/> Hawaii
7.	Did the incident/disturbance originate in your system/area? (check one)	Yes <input checked="" type="checkbox"/> No []	Unknown []
8.	Estimate of Amount of Demand Involved (Peak Megawatts)		Unknown <input checked="" type="checkbox"/>
9.	Estimate of Number of Customers Affected		Unknown <input checked="" type="checkbox"/>

10. Type of Emergency Check all that apply	11. Cause of Incident Check if known or suspected	12. Actions Taken Check all that apply
Physical Attack <input checked="" type="checkbox"/>	Complete Electrical System Failure []	Shed Firm Load []
Cyber Event []	Electrical System Separation - Islanding []	Reduced Voltage []
Major Transmission System Interruption []	Inadequate Electric Resources to Serve Load []	Made Public Appeals <input checked="" type="checkbox"/>
Major Generation Inadequacy []	Actual or Potential Attack/Event Physical Attack <input checked="" type="checkbox"/> Cyber Event [] Vandalism <input checked="" type="checkbox"/>	Implemented a Warning, Alert, or Contingency Plan []
Major Distribution System Interruption <input checked="" type="checkbox"/>	Transmission Equipment []	Shed Interruptible Load []
Other []	Loss of Part or All of a High Voltage Substation or Switchyard (230 kV + for AC, 200 kV+ for DC) <input checked="" type="checkbox"/> Weather or Natural Disaster []	Repaired/Restored [] Mitigation(s) Implemented <input checked="" type="checkbox"/>
Additional Information/Comments: Early this morning we had an intruder who shot out 2 or 3 transformers at Metcalf 500 KV yard in San Jose California. The damage is unknown and they are currently looking for secondary devices. There are reported outages	Operator Action(s) []	Other []
	Fuel Supply Deficiency (e.g., gas, oil, water) []	
	Unknown Cause []	Additional Information/Comments:
	Other []	
	Additional Information/Comments:	



From: [REDACTED]
Sent: Tuesday, April 16, 2013 1:58 PM
To: [REDACTED]
Cc: Richard Sobonya
Subject: Re: California ISO Flex Alert News Release: Urgent conservation needed NOW in Santa Clara and Silicon Valley

10

[REDACTED]

Regards,

[REDACTED]

On Tue, Apr 16, 2013 at 1:47 PM, [REDACTED] wrote:

Hi [REDACTED] fyi.. [REDACTED] was here today so I'm sure that you all probably have already heard about [REDACTED]

----- Forwarded message -----

From: [REDACTED]
Date: Tue, Apr 16, 2013 at 1:46 PM
Subject: Re: California ISO Flex Alert News Release: Urgent conservation needed NOW in Santa Clara and Silicon Valley
To: Carlos Clay <carlos.clay@ferc.gov>

[REDACTED]

On Tue, Apr 16, 2013 at 1:38 PM, Carlos Clay <carlos.clay@ferc.gov> wrote:

[REDACTED]

From: [REDACTED]
Sent: Tuesday, April 16, 2013 1:19 PM
To: Carlos Clay
Cc: [REDACTED]
Subject: Fwd: California ISO Flex Alert News Release: Urgent conservation needed NOW in Santa Clara and Silicon Valley

Carlos: fyi... [REDACTED]

----- Forwarded message -----

From: **Johnson, Erin** <erjohnson@caiso.com>

Date: Tue, Apr 16, 2013 at 1:06 PM

Subject: California ISO Flex Alert News Release: Urgent conservation needed NOW in Santa Clara and Silicon Valley

To: "Johnson, Erin" <erjohnson@caiso.com>

The California ISO is urging residents and businesses in the San Jose area, in particular Santa Clara and Silicon Valley, to conserve electricity NOW following heavy damage to the Metcalf transmission substation.

To read more, please see the attached news release issued by the California ISO.

Erin Johnson

Technical Assistant

Communications & Public Relations



California ISO
Shaping a Renewed Future



Rated:
LEED
Platinum

O: (916) 351-2451 | [REDACTED] | Media Line: 1-888-516-6397

250 Outcropping Way, Folsom, CA 95630



Please consider the environment before printing this email.

If you would like to be unsubscribed from further News Release notifications from the California ISO, please email your requests to erjohnson@caiso.com

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Redacted Pursuant to FOIA Exemption B5, B6 and 7A



April 16, 2013

CONSERVATION TIPS

- Lower lighting.
- Turn off thermostats.
- Power down unnecessary electric appliances and devices.

Operating reserves forced to fall to between 7% - 5%

Operating reserves forced to fall below 5%

Operating reserves forced to fall below 5%

TRANSMISSION EMERGENCIES

Declared when local voltage levels are at risk due to sudden power line outages or when lines threaten the grid.



Contact: ISO Media Hotline (888) 516-NEWS

Stephanie McCorkle: 916 802-4033
Steven Greenlee: 916 980-4295

Flex-Alert for Northern CA Only Urgent conservation needed NOW in Santa Clara & Silicon Valley

The California ISO is urging residents and businesses in the San Jose area, in particular Santa Clara and Silicon Valley, to conserve electricity NOW following heavy damage to the Metcalf transmission substation.

Pacific Gas and Electric is reporting heavy damage to transformers at the substation following gunshots heard during an apparent vandalism in the early morning hours. Santa Clara law enforcement is working closely with PG&E to investigate.

As damage assessments continue, additional equipment at the substation may be taken out-of-service. This will limit transmission capability in this area of the high-voltage grid, which is why conservation is required.

Consumers are urged to reduce their energy use now through midnight. The ISO will keep media informed. For more information go to www.caiso.com

Monitor grid conditions at www.caiso.com. Click "Notify me" to sign up for Flex Alerts and other updates.

Michael Peters

From: Peterson, Michael R (Corp Security)
Sent: Tuesday, November 12, 2013 11:49 AM
To: Michael Peters
Subject: RE: FBI Metcalf announcement

Call me and I will answer your questions. M

From: Michael Peters [<mailto:michael.peters@ferc.gov>]
Sent: Tuesday, November 12, 2013 6:34 AM
To: Peterson, Michael R (Corp Security)
Subject: FBI Metcalf announcement

Mike,

I hope things are going well for you.

There was a story today where the FBI has stated that Metcalf was not terrorism. [REDACTED]

[REDACTED]

What is the latest update on the case and how have your mitigation efforts for metcalf and other critical facilities been going?

By Esther Whieldon

The mid-April shooting of a Pacific Gas and Electric Co. substation in California is not believed to be an act of terrorism, a U.S. Federal Bureau of Investigation spokesman said Nov. 8.

"I can assure you that, based on what we have seen so far, there is no indication of terrorism," FBI San Francisco Division Spokesman Peter Lee said in an interview. Lee declined to provide any further details about the status of the investigation that the FBI is heading up.

One or more people in April riddled transformers and circuit breakers at the Metcalf substation with bullet holes using a high-powered rifle. The facility is in southeastern San Jose and connects a branch of the major Path 15 power line corridor with local lines and Calpine Corp.'s Metcalf Energy Center.

A Santa Clara County, Calif., sheriff's office official in July said the FBI was taking over the case over concerns that the event might be a terrorist act.

The Metcalf substation shooting is one of two seemingly unrelated cases in 2013 in which people have attacked major U.S. transmission facilities. A federal grand jury recently indicted an Arkansas man on eight counts, including for launching a terrorist attack against a railroad carrier, after he

Redacted Pursuant to FOIA Exemption 7A

allegedly tried to take down some high-voltage transmission support structures and set fire to a substation in central Arkansas in August, September and October.

PG&E is a subsidiary of PG&E Corp.

The Energy Daily

November 12, 2013

Thanks,
Mike

Contact Info:
Michael Peters
(202) 502-8461 (office)
(202) 219-2836 (Fax)

Office of Energy Infrastructure Security (OEIS) - Energy Infrastructure &
Cyber Security Advisor (EICSA)
Rm. 91-63

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PG&E is committed to protecting our customers' privacy.

To learn more, please visit <http://www.pge.com/about/company/privacy/customer/>

12



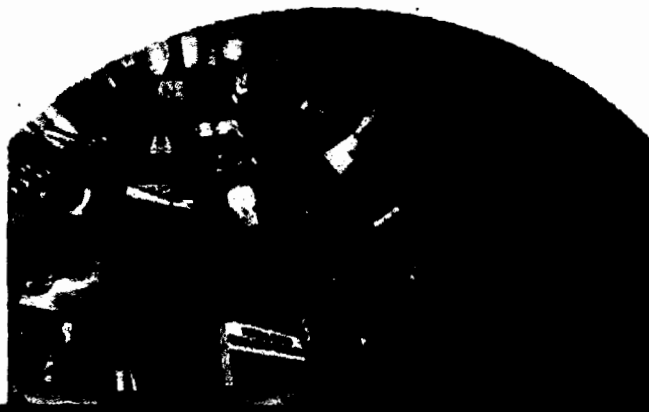
13

Patricia Smith

From: Jette Gebhart
Sent: Friday, April 18, 2014 11:13 AM
To: Cheryl LaFleur; Joshua Konecni; Kurt Longo
Subject: FW: REVISED April 18 newsclips

The Rebecca Smith article says: "After the Metcalf substation attack, NERC issued an alert to members that described the incident as vandalism. Government officials forced the group to rewrite the alert using the word "sabotage" and to include that damage to 17 big transformers "warrants heightened concern."

From: mediadl@ferc.gov [mailto:mediadl@ferc.gov]
Sent: Friday, April 18, 2014 11:07 AM
To: NewsDL
Subject: REVISED April 18 newsclips



DAILY NEWS CL

OFFICE OF EXTERNAL AFFAIR
FEDERAL ENERGY REGULATORY COM

Friday, April 18, 2014

Visit our [News Clips](#) website

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The Wall Street Journal

PROPOSAL TO PREVENT GRID ATTACK LACKS POWER, CRITICS SAY

Draft From Electricity Industry After Assault on California Substation Doesn't Require Specific Upgrades
By Rebecca Smith

April 17, 2014 7:06 p.m. ET

A year after gunfire knocked out a substation that funnels power to Silicon Valley, the U.S. government has promised to make power companies amp up protection of equipment vital to the electric grid.

But draft regulations—written by the power industry—are drawing criticism from experts who say the proposals are too loose to stop saboteurs. Among other things, the rules would allow electric companies to decide for themselves what threats are realistic and what steps to take to safeguard equipment.

The proposed rules don't include the specific suggestions federal regulators made last year after the attack on the Metcalf substation near San Jose, Calif., such as installing opaque fencing and blast barriers at substations. And experts say they will exempt all but a few hundred of the nation's 55,000 transmission substations from any new security requirements.

The proposed rules are "an embarrassment and an insult because they don't go far enough," says James Holler, a grid-security expert at Abidance Consulting in Houston.

The rifle attack on PG&E Corp.'s Metcalf substation last April has raised concerns about the vulnerability of the electric grid to sabotage and some officials fear it was a dress rehearsal for future assaults. Government computer models have suggested that similar incidents at as few as nine substations could cause widespread blackouts.

The proposed rules were drafted by North American Electric Reliability Corp., a nonprofit organization based in Atlanta that is dominated by utility companies.

Under federal law, the group has exclusive authority to write standards for the high-voltage electric system. The Federal Energy Regulatory Commission, an independent agency, accepts or rejects the rules.

A spokeswoman for the nonprofit group says the latest proposal gives utilities flexibility to respond to differing situations. "What would be needed in an urban area might not be the best solution in a rural area," Kimberly Mielcarek, NERC's director of communications, says by email. "This directive enables flexibility for organizations to work with the characteristics of their particular area, as well as their law-enforcement specifications."

But one longtime critic of the group says its main goal isn't to protect the grid. It is "to prevent any financial liability for utilities," says Thomas Popik, founder of Foundation for Resilient Societies, a nonprofit research group studying the safety of the electric grid. If NERC wrote more explicit rules, he says, utilities could be exposed to penalties as high as \$1 million a day per violation.

NERC last June opposed new requirements to protect the grid from physical threats, saying they were unnecessary. But federal regulators last month ordered the group to come up with new rules within 90 days.

Ten of the 11 people on NERC's drafting team are employed by North American power companies, including the chairwoman, who works for Chicago-based utility Exelon Corp. The remaining member works for a nonprofit group that runs the transmission grid for the Southwest.

Under the proposed rules, utilities must come up with plans to protect the substations and related facilities that have the biggest transformers, which move electricity on or off high-voltage lines. The utilities also must cover smaller substations in limited circumstances.

The electric companies must come up with plans to protect these substations from deliberate attacks and hire outside experts to review the plans. But at a meeting on Thursday, members of the drafting team said that those reviews could be performed by other utilities or by outside consultants paid to help companies write their plans.

The proposal doesn't lay out any specific requirements or set deadlines for when utilities must implement whatever plans they draft.

NERC members will vote on the proposed rules starting Sunday. The group plans to present federal regulators with the new standards by June 5.

The relationship between the federal commission and the reliability organization has been testy at times. After the Metcalf substation attack, NERC issued an alert to members that described the incident as vandalism. Government officials forced the group to rewrite the alert using the word "sabotage" and to include that damage to 17 big transformers "warrants heightened concern."

Oversight wasn't needed in the early days of the power industry because electricity was consumed close to where it was made. That changed after utilities stitched their networks together and a massive 1965 blackout in the Northeast led to the creation of NERC, which wrote voluntary standards for the industry. After another huge blackout hit the Northeast in 2003, Congress ordered federal regulators to pick someone to write mandatory rules. They chose NERC.

Regulators insisted that the group allow participation by stakeholders such as consumer groups. But utilities retained their grip, in part because weighted voting gives them control over new rules.

Consumer groups say participating at NERC is difficult and expensive. John Anderson, president of the Electricity Consumers Resource Council, which represents big companies that spend lots of money on electricity, says his group would like to help write requirements for grid security.

"We don't have the resources," he says. "I think you're going to find it's mainly utilities."

Some lawmakers want to give more power to the federal energy commission. "The real regulator is put in the position of having to let industry write its own rules," says Rep. Trent Franks (R., Ariz.).

Utilities generally have opposed such a change. "Legislation gave deference to the industry" because it has the most technical expertise, says NERC Chief Executive Gerry Cauley.

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Greenwire

ENERGY POLICY: FERC MEMBER CALLS WIND REPORT ON PTC, NUCLEAR CLOSURES 'COMPELLING'

Hannah Northey, E&E reporter

Published: Thursday, April 17, 2014

A member of the Federal Energy Regulatory Commission today said the American Wind Energy Association presented "compelling" information that wind production tax credits are not a major factor in making nuclear power uneconomical.

Speaking at FERC's monthly meeting in Washington, D.C., Commissioner John Norris said he had asked for information about why baseload nuclear power plants are being forced out of the market and whether production tax credits for the wind industry were a factor.

Since receiving AWEA's report, Norris said, he's asked Exelon Corp., the country's largest nuclear plant operator, for more feedback.

"I just want to get to the bottom of the economics of this," said Norris, a Democrat from Iowa, where wind energy is prominent. "If the PTC isn't a factor ... then let's get it out of our rhetoric."

The fate of the wind PTC has been a thorny issue in the energy industry in recent months, with utility Exelon Corp. arguing that the PTC allows wind power producers to sell into competitive markets at negative prices, undercutting its fleet of nuclear reactors.

FERC Commissioner Philip Moeller today reiterated his concerns about the effect of the wind PTC on energy markets and said the "debate is ongoing." Moeller also outlined the agency's steps to integrate renewables.

AWEA released a report in March, which asserted Exelon had overstated the extent to which negative pricing occurs and says those situations can be blamed on factors other than the PTC, such as transmission bottlenecks. The association also argued that wind's ability to reduce electricity prices is a boon for consumers (E&E Daily, March 28).

Joseph Dominguez, Exelon's senior vice president for governmental and regulatory affairs and public policy, in the past has questioned the premise of the AWEA study, saying it relied on day-ahead prices in the markets it studied rather than using real-time price data where negative pricing was more visible.

Dominguez said Exelon supports efforts to incentivize wind energy, as long as such incentives do not undercut the value of nuclear, which provides baseload electricity without carbon dioxide emissions.

Exelon, which has 17 reactors in the Midwest and Mid-Atlantic, has blamed subsidized wind -- along with cheap gas and waning demand -- for forcing it to scrap two nuclear expansion projects in Illinois and Pennsylvania (Greenwire, June 12, 2013).

The utility has also blamed market structures. Exelon Generation President and CEO Kenneth Cornew said at a Platts conference in Nevada earlier this month that competitive market rules and state and federal energy